

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A method for reordering a decode order into a display order of an image, the decode order comprising an I-picture (intra-coded picture), a P-picture (predictive-coded picture), and a B-picture (bi-directionally-predictive coded picture), the method obtaining a compressed picture sequence and comprising the following steps:
 - (1.1) determining a first picture of the compressed picture sequence;
 - (1.2) if the first picture is I-picture, decoding the first picture and storing the decoded first picture into a first buffer; and
 - (1.3) obtaining a first virtual picture according to a predetermined manner, sending the first virtual picture to a second buffer for display, ~~wherein the second buffer is the only buffer for displaying the image in the display order~~ wherein the predetermined manner, responsive to a virtual picture parameter, generates the first virtual picture using a decoded picture pre-stored in a third buffer, and the virtual picture parameter, generated by a parameter generator, comprises a first zero-valued motion vector and a first zero-valued coded-block pattern.

2. (Cancelled)

3. (Currently amended) The method of Claim 1, wherein the step (1.3) further comprises:

(3.1) determining a second picture;

(3.2) if the second picture is P-picture, decoding the second picture and storing the decoded second picture into a third buffer; and

(3.3) obtaining a second virtual picture according to the predetermined manner, sending the second virtual picture to the second buffer for display,

wherein the predetermined manner, responsive to a parameter, generates the second virtual picture using a decoded picture pre-stored in the first buffer, and the parameter, generated by the parameter generator, comprises a second zero-valued motion vector and a second zero-valued coded-block pattern.

4. (Cancelled)

5. (Currently amended) The method of Claim 1, wherein the step (1.3) further comprises:

- (5.1) determining a second picture;
 - (5.2) if the second picture is I-picture, decoding the second picture and storing the decoded second picture into a third buffer; and
 - (5.3) obtaining a second virtual picture according to the predetermined manner, sending the second virtual picture to the second buffer for display,
- wherein the predetermined manner, responsive to a parameter, generates the second virtual picture using a decoded picture pre-stored in the first buffer, and the parameter, generated by the parameter generator, comprises a second zero-valued motion vector and a second zero-valued coded-block pattern.

6-26. (Canceled)

27. (New) The method of Claim 1, wherein the virtual picture parameter further comprises a scale factor so that the width and height of the first virtual picture may be different from the first picture.

28. (New) The method of Claim 1, wherein the virtual picture parameter further comprises a picture coding type defined by MPEG standard, and the picture coding type is P-picture.

29. (New) The method of Claim 28, wherein a macroblock in the first virtual picture is a skipped macroblock.
30. (New) The method of Claim 1, wherein the first virtual picture is a virtual frame picture, and a prediction mode frame_motion_type parameter as defined in a MPEG standard of macroblocks in the virtual frame picture is generated as "frame-based".
31. (New) The method of Claim 1, wherein the first virtual picture is a virtual field picture, and a prediction mode field_motion_type parameter as defined in a MPEG standard of macroblocks in the virtual field picture is generated as "field-based".
32. (New) The method of Claim 31, wherein the virtual field picture comprises a prediction made from a field of a same parity.
33. (New) The method of Claim 1, wherein the second buffer is the only buffer for displaying the image in the display order.

34. (New) The method of Claim 3, wherein the virtual picture parameter further comprises a scale factor so that the width and height of the second virtual picture may be different from the second picture.
35. (New) The method of Claim 3, wherein the parameter further comprises a picture coding type defined by MPEG standard, and the picture coding type is P-picture.
36. (New) The method of Claim 35, wherein a macroblock in the second virtual picture is a skipped macroblock.
37. (New) The method of Claim 3, wherein the second virtual picture is a virtual frame picture, and a prediction mode frame_motion_type parameter as defined in a MPEG standard of macroblocks in the virtual frame picture is generated as “frame-based”.
38. (New) The method of Claim 3, wherein the second virtual picture is a virtual field picture, and a prediction mode field_motion_type parameter as defined in a MPEG standard of

macroblocks in the virtual field picture is generated as "field-based".

39. (New) The method of Claim 38, wherein the virtual field picture comprises a prediction made from a field of a same parity.

40. (New) The method of Claim 5, wherein the virtual picture parameter further comprises a scale factor so that the width and height of the second virtual picture may be different from the second picture.

41. (New) The method of Claim 5, wherein the parameter further comprises a picture coding type defined by MPEG standard, and the picture coding type is P-picture.

42. (New) The method of Claim 41, wherein a macroblock in the second virtual picture is a skipped macroblock.

43. (New) The method of Claim 5, wherein the second virtual picture is a virtual frame picture, and a prediction mode frame_motion_type parameter as defined in a MPEG standard of

macroblocks in the virtual frame picture is generated as “frame-based”.

44. (New) The method of Claim 5, wherein the second virtual picture is a virtual field picture, and a prediction mode `field_motion_type` parameter as defined in a MPEG standard of macroblocks in the virtual field picture is generated as “field-based”.

45. (New) The method of Claim 44, wherein the virtual field picture comprises a prediction made from a field of a same parity.